

Soil Test Report

Prepared For:

Byron Palmer
Sonoma Mountain Institute
4080 Manor Lane
Petaluma, CA 94954

byronpalmer@hotmail.com
619-818-7669

Sample Information:

Sample ID: C1 2016

Order Number: 21757

Lab Number: S160419-224

Area Sampled: 3 acres

Received: 4/19/2016





Reported: 5/6/2016

Results

<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>	<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>
Soil pH (1:1, H ₂ O)	5.5		Cation Exch. Capacity, meq/100g	12.7	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	6.2	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	0.3	4-14	Calcium Base Saturation	35	50-80
Potassium (K)	288	100-160	Magnesium Base Saturation	10	10-30
Calcium (Ca)	892	1000-1500	Potassium Base Saturation	6	2.0-7.0
Magnesium (Mg)	153	50-120	Scoop Density, g/cc	1.03	
Sulfur (S)	6.8	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	4.0	
Boron (B)	0.0	0.1-0.5			
Manganese (Mn)	6.5	1.1-6.3			
Zinc (Zn)	0.3	1.0-7.6			
Copper (Cu)	0.0	0.3-0.6			
Iron (Fe)	1.6	2.7-9.4			
Aluminum (Al)	32	<75			
Lead (Pb)	0.0	<22			

* Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				



Soil and Plant Tissue Testing Laboratory

203 Paige Laboratory
161 Holdsworth Way
University of Massachusetts
Amherst, MA 01003
Phone: (413) 545-2311
e-mail: soiltest@umass.edu
website: soiltest.umass.edu

Recommendations for Grass Pasture - Maintenance

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
4000	50	90	0

lbs / acre

Comments:

-Calcitic limestone is acceptable since soil magnesium levels are sufficient.

General References:

Interpreting Your Soil Test Results

<http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results>

For current information and order forms, please visit

<http://soiltest.umass.edu/>

UMass Extension Nutrient Management

<http://ag.umass.edu/agriculture-resources/nutrient-management>